ELSEVIER

EPSL

Earth and Planetary Science Letters 151 (1997) 305–306

Contents Volume 151

Express Letter

The three-dimensional attenuation structures beneath the Philippine archipelago based on seismic intensity data inversion
G.M. Besana, H. Negishi and M. Ando 1

Regular Letters

The East ridge system 28.5–32°S East Pacific rise: Implications for overlapping spreading center development
F. Martínez, R.N. Hey and P.D. Johnson 13
The role of shear heating in lubricating mantle flow
A.P. van den Berg and D.A. Yuen. 33
The dynamic evolution of the Iceland mantle plume: the lead isotope perspective
B.B. Hanan and J.-G. Schilling 43
The persistence of off-cratonic lithospheric mantle: Os isotopic systematics of variably metasomatised southeast Australian xenoliths
M.R. Handler, V.C. Bennett and T.M. Esat 61
Nitrogen isotope tracers of high-temperature fluid–rock interactions: Case study of the Catalina Schist, California
G.E. Bebout 77
The Hf isotopic composition of ferromanganese nodules and crusts and hydrothermal manganese deposits: Implications for seawater Hf
L.V. Godfrey, D.-C. Lee, W.F. Sangrey, A.N. Halliday, V.J.M. Salters, J.R. Hein and W.M. White 91
New magnetostratigraphic and $^{40}Ar/^{39}Ar$ dating results from the Suva Marl, Fiji: Calibration of the Early Pliocene geomagnetic polarity time scale
B.M. Clement, C.C. Swisher and P. Rodda 107
The Mid-Pleistocene climate transition: onset of 100 ka cycle lags ice volume build-up by 280 ka
M. Mudelsee and M. Schulz 117
Inferences of viscosity from the oceanic geoid: Indication of a low viscosity zone below the 660-km discontinuity
M. Kido and O. Čadek 125
Mesozoic igneous activity in the Maranhão province, northern Brazil: $^{40}Ar/^{39}Ar$ evidence for separate episodes of basaltic magmatism
A.K. Baksi and D.A. Archibald 139
The control of chamber geometry on triggering volcanic eruptions
A.W. Woods and D.M. Pyle 155
Cenozoic thermal evolution of the central Sierra Nevada, California, from (U–Th)/He thermochronometry
M.A. House, B.P. Wernicke, K.A. Farley and T.A. Dumitru 167
Effects of serpentinization on the lithospheric strength and the style of normal faulting at slow-spreading ridges
J. Escartín, G. Hirth and B. Evans 181
Ages of ultrahigh pressure metamorphism and protolith orthogneisses from the eastern Dabie Shan: U/Pb zircon geochronology
D.B. Rowley, F. Xue, R.D. Tucker, Z.X. Peng, J. Baker and A. Davis 191
Phenocryst and melt inclusion chemistry of near-axis seamounts, Valu Fa Ridge, Lau Basin: insight into mantle wedge melting and the addition of subduction components
V.S. Kamenetsky, A.J. Crawford, S. Eggins and R. Mühe 205
Excess helium and argon of radiogenic origin in Mediterranean brine basins
G. Winckler, E. Suess, K. Wallmann, G.J. de Lange, G.K. Westbrook and R. Bayer 225

Variations in heat flow across the ocean–continent transition in the Iberia abyssal plain
K.E. Louden, J.-C. Sibuet and F. Harmegnies 233
Systematic variations in the $^{3}He/^{4}He$ ratio and carbon of fumarolic fluids from active volcanic areas in Italy: Evidence for radiogenic ^{4}He and crustal carbon addition by the subducting African plate?
D. Tedesco 255
Antiquity of peridotitic diamonds from the Siberian craton
S.H. Richardson and J.W. Harris 271
Alteration and dissolution of fine-grained magnetite and its effects on magnetization of the ocean floor
W. Xu, R. Van der Voo, D.R. Peacor and R.T. Beaubouef 279
The origin of sulfide-rimmed metal grains in ordinary chondrites
D.S. Lauretta, K. Lodders, B. Fegley Jr. and D.T. Kremser 289

Author Index Volume 151 303